ARKANSAS PHYSICS · UNIT 3 · 10 QUESTIONS

Electricity, Magnetism, and Waves — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A voltage of 9 volts drives a current of 2 amperes The power dissipated is**

- A 7 watts
- B 11 watts
- C 18 watts
- D 81 watts

Understand It with Pulse | Flag a mistake

2 **A wave has a frequency of 8 hertz and a wavelength of 5 meters The wave speed is**

- A 13 meters per second
- B 3 meters per second
- C 45 meters per second
- D 40 meters per second

Understand It with Pulse | Flag a mistake

3 **A wave has a period of 0.5 seconds Its frequency is**

- A 2 hertz
- B 0.5 hertz
- C 1 hertz
- D 5 hertz

Understand It with Pulse | Flag a mistake

4 **A wave travels at 80 meters per second with a frequency of 16 hertz Its wavelength is**

- A 16 meters
- B 5 meters
- C 64 meters
- D 1280 meters

Understand It with Pulse | Flag a mistake

5 **In a transverse wave the particles vibrate**

- A Parallel to the wave direction
- B Along a spiral only
- C At right angles to the wave direction
- D In the direction of travel only

Understand It with Pulse | Flag a mistake

6 **The distance between two adjacent crests of a wave is its**

- A Amplitude
- B Frequency
- C Period
- D Wavelength

Understand It with Pulse | Flag a mistake

7 **Opposite electric charges placed near each other will**

- A Attract
- B Repel
- C Have no effect
- D Cancel their mass

Understand It with Pulse | Flag a mistake

8 **A circuit breaker in a home protects the circuit by**

- A Increasing the voltage
- B Opening the circuit when current is too large
- C Storing charge
- D Reducing resistance

Understand It with Pulse | Flag a mistake

9 **The graph shows a wave The period of the wave in the graph is about 6.28 units The frequency is about**

- A 1 hertz
- B 3 hertz
- C 0.16 hertz
- D 6 hertz

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10 **A device uses 60 watts for 50 seconds What is the energy used in joules**

ANSWER

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ANSWER KEY

1.	C	**5.**	C	**9.**	C
2.	D	**6.**	D	**10.**	3000
3.	A	**7.**	A		
4.	B	**8.**	B		

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